DOCUMENT RESUME

ED 409 928 JC 970 190

AUTHOR	Katz, Jerome A.
TITLE	Endowed Positions and the Infrastructure of Entrepreneurship: 1992 Updates to Prior Research.
INSTITUTION	Saint Louis Univ., MO. Jefferson Smurfit Center for Entrepreneurial Studies.
PUB DATE	7 Oct 92
NOTE	30p.
AVAILABLE FROM	Jefferson Smurfit Center for Entrepreneurial Studies, Saint Louis University School of Business and Administration, 3674 Lindell Blvd., St. Louis, MO 63108.
PUB TYPE	Reports - Research (143)
EDRS PRICE	MF01/PC02 Plus Postage.
DESCRIPTORS	Business; College Faculty; *Entrepreneurship; *Federal Aid; *Financial Support; Grants; Higher Education; *Philanthropic Foundations; *Research and Development Centers; *Scholarly Journals; Teacher Recruitment; Trend Analysis

ABSTRACT

In 1992, a project was undertaken to update research conducted in 1991 on the nationwide infrastructure of the academic field of entrepreneurship, focusing on the status of five elements: faculty, research institutions, research funding, professional organizations, and publications. The update found that the number of endowed entrepreneurship faculty positions in the United States grew from 102 in 1991 to 123 in 1992, while 5 of the original 102 positions had changed sufficiently to be dropped from the listing. In addition, the recruitment of endowed positions broadened to include other fields and the number of assistant professors identified with the field increased. As for research institutions, there was a large increase in the number of centers dedicated to family business issues. Data on funding opportunities suggested that although the federal government was supporting more research on entrepreneurship than was commonly discussed in the literature, those able to obtain the funding were generally not from the field of entrepreneurship. While not specifically professional organizations, several foundations became involved in funding large-scale research in the field between 1991 and 1992. Finally, 6 new journals in field were found, adding to the 14 found in 1991, and 3 more were planned for 1993. Lists of endowed positions as of 1992, entrepreneurship-related centers, and journals in the field are appended. (CELCEE, an adjunct ERIC Clearinghouse on Entrepreneurship Education) (HAA)

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ED 409 928

ENDOWED POSITIONS AND THE INFRASTRUCTURE OF ENTREPRENEURSHIP: 1992 UPDATES TO PRIOR RESEARCH

Jerome A. Katz
Saint Louis University

Jefferson Smurfit Center for Entrepreneurial Studies

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Jerome A. Katz
Saint Louis University

October 7, 1992

Presented at the USASBE Fourth Annual National Convention Entrepreneurship Education Pre-Conference, Chicago, Illinois.

This research was supported by a grant from the Jefferson Smurfit Center For Entrepreneurial Studies, Saint Louis University. The author wishes to thank Stefan Bornheim, Peter Robinson, Betsy Gatewood and Ray Bagby for their assistance and advice in the preparation of this manuscript. Copies are available from the Jefferson Smurfit Center for Entrepreneurial Studies, Saint Louis University School of Business and Administration, 3674 Lindell Blvd., St. Louis, MO 63108.

ENDOWED POSITIONS AND THE INFRASTRUCTURE OF ENTREPRENEURSHIP: 1992 UPDATES TO PRIOR RESEARCH

Jerome A. Katz
Saint Louis University

It is now nearly two years since the culmination of a pathbreaking round of research on the infrastructure of the academic field of entrepreneurship. The results of these research efforts formed the basis of a special issue of the journal *Entrepreneurship: Theory and Practice* published in Spring 1991 dedicated to infrastructure studies. The issue was well received, becoming one of the most requested issues *ETP* has published. But the field's development did not end with the publication of that special issue, and this paper seeks to serve as an update to the findings published in 1991.

Following the format of the capstone piece in the special issue (Katz, 1991b) this paper will consider the major elements of infrastructure in turn:

- Faculty,
- Research institutions,
- Research funding,
- Professional Organizations, and
- Publications

Academic Programs, which was included in the 1991 paper, will not be covered in this update, since the major research, conducted by George Solomon of the US Small Business Administration, was presented earlier in this session (Solomon, 1992).

FACULTY

The count of endowed positions continues to represent a convenient shorthand for the growth of the field. In the two years since the last endowed position survey was completed, the number in the U.S. has grown from 102 to 123 endowed positions[1]. The phenomenal continued pattern of growth remains one of the strongest indicators of the continued strength of the field and its continuing appeal to donors.

The positions, which are listed in Table 1, reflect even more volatility than the 32 position growth would indicate. Five of the 102 positions listed in 1991 changed sufficiently to be dropped from the listing[2]. Two explanations account for most of these cases: either the chair or professorship was terminated with the departure of the current holder, or the positions was altered to support people outside of entrepreneurship. This type of volatility was predicted from the 1991 data (Katz 1991a)

While the positions creation process was more volatile than was evident in 1991, the human resource component was much more stable. Of 102 positions listed in 1991,

approximately 26 were vacant. For the list in Table 1, the number vacant is 13.

Generally the growth of new positions has been at smaller schools, and most positions have been funded at approximately $1 million. With the continuing decline in returns on endowment, to approximately 2.5-3.1% to the position-holder after college overhead, the $1 million endowment which is so typical is producing only enough funds to "sweeten" a salary line-item for an individual, rather than to fully fund a position.

From the current survey, there is little evidence of efforts to increase endowments to provide the same level of return common 3 or more years ago.

Two other areas of change are worth noting within faculty ranks. First, recruitment of endowed positions holders is beginning to broaden. Two of the most recent appointments have been sociologists recruited into entrepreneurship at Marquette University and the University of Texas. This type of entry is important for establishing links between mainstream entrepreneurship research and other fields with established research traditions in entrepreneurship.

The second area of change in faculty positions during the two years since the original infrastructure work has been the rapid change in the number of assistant professors identified with the field of entrepreneurship who have been promoted and tenured. A partial listing includes: William Bygrave (Babson College - Tenured and promoted to

an endowed full professorship), Jeffrey Covin (Georgia Tech), Sandy Eustis (Xavier University), William Gartner (Georgetown University), Jerome Katz (Saint Louis University), and William Sahlman (Harvard University - also promoted and awarded an endowed position). The diversity of the schools involved suggests that there is emerging a "career ladder" for entrepreneurship academics similar to those in other, more established, fields. This prospect bodes well for the next generation of endowed position holders, since the presence of associate professor positions means there will be a larger pool of people with established credentials in entrepreneurship education, research, and service from which to draw future chairholders. The presence of the career ladder in the field as a whole also is likely to increase the attractiveness and predictability of academic careers in entrepreneurship for doctoral candidates.

RESEARCH INSTITUTIONS

Over the past two years one of the major areas of growth in terms of entrepreneurship centers has been the virtual explosion in the number of centers dedicated to family business issues. This growth is unusual for three reasons:

First, it represents one of the first efforts to develop centers with a specific focus. As noted in the 1991 review, virtually all centers existing at that time were generalist centers, providing a broad range of services to any type of firm.

At that time, it was suggested that a greater degree of specialization could make competitive sense.

Second, the rate of growth of these new centers exceeds that of conventional centers given current historical information. In part this growth reflects the preparation of the market by existing centers.

Third, the growth of these centers can be traced to existing endowed positions holders and centers, such as Craig Aronoff at Kennesaw State, John Ward at Loyola, and Bernie Tennenbaum at Fairleigh Dickinson.

Table 2 below updates the center list offered by Sandberg and Gatewood (1991) including new centers in entrepreneurship and family business.

RESEARCH FUNDING

Additional research on funding opportunities has suggested that the Federal government is supporting a far greater amount of research on entrepreneurship than is commonly discussed in mainstream entrepreneurship literature. Ironically in finding this "big-buck" research, it has also become apparent that those able to obtain the funding are generally not from the field of entrepreneurship. Consider the following projects:

"At Home Income Generation" - a study funded by the Cooperative Research Service of the US Department of Agriculture is a longitudinal analysis of home-based businesses, based on telephone interviews of representative samples of self-employeds in nine states. Its conceptual base comes from home economics and agricultural extension services, not entrepreneurship.

Self-Employed Programs for Unemployed Workers (US Department of Labor, 1992) outlines the findings of a pair of demonstration projects which seek to help people receiving unemployment insurance to become self-employed. Starting in 1989 and 1990, these multi-year, multimillion-dollar programs represented an American effort to copy a type of program operating already in 17 other nations. The conceptual basis comes from economics, although practitioners involved with SBDCs, SCORE, and other similar types of centers were involved in elements of the program.

Rural redevelopment as a general theme has become a major focus of government and foundations. For example another multiyear, multimillion-dollar project to develop entrepreneurial activity in rural Arkansas is run by University of Chicago sociologist Richard Taub. Funding is largely from foundations such as the Kellogg and Ford Foundations, and the conceptual model underlying the work comes from social relations theory, although one mainstream entrepreneurship research, Connie Marie Gaglio, is part of the research team. Similar programs,

with varying mixtures of government and foundation funding are being done in several plains states and Mississippi. MacRae Banks, who has been a contributor to the entrepreneurship literature, is involved in the Mississippi efforts, but in most of the other states once again no mainstream entrepreneurship researchers are involved.

Those involved in business incubators and high-tech incubators have a somewhat higher level of involvement with mainstream entrepreneurship researchers, since approximately one dozen centers and endowed position holders have developed or supported the development of incubators, but a review of the papers presented at the professional societies for incubators once again show that mainstream entrepreneurship research is having little impact on this field.

A rough calculation of the funding levels for projects in these four general areas is in excess of $15,000,000 a year. The research mentioned above is not trivial. It reflects the population of businesses and self-employeds, including "glamour" niches such as high-technology firms. It reflects the practical transfer of entrepreneurship research across national boundaries - the unemployment insurance experiments were pioneered in Great Britain under Thatcher, and much of the conceptualization for at-home income generation and rural redevelopment comes from anthropological, economic, and sociological studies conducted in the Third World. The studies are generally rooted in theory, are oriented toward the quantitative evaluation of outcomes, and are designed

to have practical outcomes. They represent excellent examples of "action research" with policy implications.

Entrepreneurship as an endeavor may well have become too important to be trusted to mainstream entrepreneurship researchers. Those who are arguably at the forefront in the development and application of entrepreneurship theory mentioned above come from virtually every social science field but entrepreneurship, and the existing mainstream entrepreneurship organizations have made no effort to accommodate such individuals or to help their members better compete for research funding.

In the past two years the major focus of mainstream entrepreneurship researchers has come from the opportunities in the former Soviet Union and Eastern Europe. In many ways it was a tempting opportunity - where the US was becoming saturated with centers and programs performing virtually identical services for similar populations, Eastern Europe and the former U.S.S.R. represented a virgin market for these services. With funding from the U.S. government, largely through the Agency for International Development, and some funding from host countries and the World Bank, mainstream entrepreneurship researchers have adapted the concept of the U.S. center or entrepreneurship program for clients overseas.

While there remains a tremendous amount of good still to be done in these efforts, what has become clear is that as a basis for research the current efforts are sorely lacking.

The dismantling of the Communist systems represents a historical incident of truly monumental proportions, but it a historical incident, not one likely to have more than an occasional or slight impact on entrepreneurship efforts in existing capitalist systems. If current works are any indication, the entrepreneurial reformulation of Communism may result in mainstream entrepreneurship researchers becoming more estranged from the leading edge in entrepreneurship research, particularly that research with practical or policy implications.

At this point, work in formerly Communist countries is still formative enough that there exists the potential for multicountry, multi-researcher, longitudinal studies which can serve as a foundation for future efforts to gain funding for entrepreneurship research and experimentation in America. To make this happen, greater planning for the future and coordination for the present among the dozens of centers and researchers going overseas needs to occur.

PROFESSIONAL ORGANIZATIONS

While not specifically professional organizations, another major change in the infrastructure of the academic field occurred in the intervening two years, and insofar as it deals with a different type of professionally driven organization, it makes sense to

include it here. As noted above, several foundations have become involved in funding large-scale research on entrepreneurship, especially entrepreneurial development. These foundations are in addition to those mentioned in the Gatewood, Miranda, and Hoy (1990) article profiling foundations interested in funding entrepreneurship research, and those which have generally focussed on funding endowed positions in universities.

In addition to the efforts of the Kellogg and Ford Foundations mentioned above, another "megafoundation" with an interest in entrepreneurship has arrived on the scene, further focussing programmatic funds on entrepreneurship.

The Ewing Marian Kauffman Foundation of Kansas City announced in 1990 that it will be committing returns on its endowment, which when complete will be $1 *billion*, to sponsoring breakthrough work on entrepreneurship education. The Foundation identified two areas of particular interest, programs for practicing entrepreneurs, and programs for children in grades K-12. At current rates, the Kauffman Foundation will have anywhere from $15 to $25 million a year for programmatic use. Since they have stated a policy of not funding centers, buildings, or endowed positions, virtually all of the money will be earmarked for programs.

Through a number of presentations the Kauffman Foundation has made the vast majority of mainstream entrepreneurship educators aware of this new source of funding, and anticipation of its impact has been widespread. The very size and focus of the funding

has created changes among entrepreneurship academics already. Many who have never secured outside grants are preparing themselves for the Foundation's formal Call For Proposals. If this preparation leads to increased involvement in the government and foundation grant-seeking process, then the Kauffman will have done mainstream entrepreneurship a tremendous service without spending a dime. If however the attractiveness of the Kauffman funds further focus attention away from research with policy and theory impacts, then mainstream entrepreneurship will continue its push toward insularity and its potential for irrelevance.

PUBLICATIONS

The 1991 article listed 14 journals in entrepreneurship and related fields, and are shown in Table 3. Since that time growth of publication outlets has continued. Based on a search of the Winter 1992 CD-ROM edition of *The Serials Directory* using the terms and derivatives from "entrepreneur," "small business," "new firm or business," "family firm or business," and "self-employed/employment", limiting only to North American or European English language peer reviewed journals, three additional titles were identified: *American Inventor* (1989), the *Journal of Private Enterprise* (1985), and the *Wisconsin Small Business Forum*, started in 1982 and now called simply *Small Business Forum*. Although not included in the *Directory*, three more journals have begun publication: Plenum's new journal *Entrepreneurship, Innovation and Change* (1991), Sage Publications - India's *Journal of Entrepreneurship*, and JAI Press', *Review of Small*

Business Finance (1992). In addition three new journals will start publication in 1993. They are McGraw-Hill's *The Entrepreneur Review*, being jointly developed by the entrepreneurial centers at Wharton and USC, Gary Benson's recently announced *International Journal for the Advancement of Entrepreneurship Education, Training and Research: Theory and Practice*, and Nanyang Technological University (Singapore) *International Journal of Entrepreneurship*. Reports from American journal publishers also indicate efforts are underway to develop new English-language journals in Australia including *Small Enterprise Research: The Journal of SEAANZ* published at Queensland University.

The recent revamping and upgrading of the *Small Business Forum* and the Wharton/USC/McGraw-Hill announcement of *The Entrepreneur Review* do much to remedy a missing element in the entrepreneurship periodical market - the lack of a high-quality periodical dedicated to "the thinking entrepreneur" and designed to fill the void left when *Harvard Business Review* refocussed away from entrepreneurship after the departure of David Gumpert.

The *Journal of Business Venturing* has continued to press on as the leading edge publication in the field, having recently been added to the list of periodicals covered by the Institute for Scientific Information, the publishers of the *Social Science Citation Index*. In other indexing services such as ABI/Inform, the top journals in the field are now indexed and abstracted, simplifying and facilitating access to mainstream

entrepreneurship research, and further legitimizing these periodicals and the field as a whole in business education.

One element of entrepreneurship publication which was neglected in the 1991 article was that of annual reviews of entrepreneurship research. In addition to the self-published proceedings of ICSB, USASBE, the Babson Entrepreneurship Research Conference (entitled *Frontiers of Entrepreneurship Research*), the American Marketing Association/University of Illinois - Chicago Entrepreneurship-Marketing Interface Conference, and the Entrepreneurship Division section of the *Proceedings* of the Academy of Management, there are at least two series of annual reviews published by JAI Press. The oldest is edited by Gary Liebcap and is titled *Advances in the Study of Entrepreneurship, Innovation, and Economic Growth*. Starting in late 1992, JAI will publish a second series, edited by Jerome Katz and Robert Brockhaus titled *Advances in the Study of Entrepreneurship, Firm Emergence and Growth*.

Another element of entrepreneurship publication which reflects the increasing acceptance of entrepreneurship as a discipline within business has been the advent of special issues of business journals outside of entrepreneurship which were dedicated to entrepreneurship topics. Compiling this list represents one of the next activities in infrastructure efforts, but in 1994 at least one such special issue will be published when the *Journal of Business Research* sends out its special issue on the topic "Entrepreneurship and New Venture Development," edited by Timothy Stearns of Marquette and Gerald Hills of Illinois-

Chicago. At least one issue of the *Journal of Creative Behavior* each year has been dedicated to the papers presented at the Annual Creativity, Innovation and Entrepreneurship Conference sponsored by the U.S. Small Business Administration.

Overall the publication area shows continued growth and maturation. More outlets and types of outlets are being established, and effort to improve the quality of journals, especially the highest-rated of the mainstream entrepreneurship journals, continue. With the growth of practice oriented journals providing thought provoking articles for entrepreneurs, annual reviews for thought pieces for researchers, and special issues of mainstream business journals providing a look at entrepreneurship for people unfamiliar with the field, it is clear that through publications the academic field of entrepreneurship has made a substantial effort to reach out to different markets.

CONCLUSIONS

The field of entrepreneurship and its related disciplines continue to show remarkable growth, particularly in terms of the number of endowed positions and research publication outlets available. The field has also made considerable progress in maturing as a professional academic discipline, increasing its breadth of recruitment and its position depth through the growth of tenured associate professors across a variety of schools.

The field's external legitimacy has also markedly increased as a result of growing interest in the policy application of entrepreneurship to new populations, such as the rural poor or the unemployed. Extensive government and foundation research funds are being expended to study entrepreneurship among these groups using experimental design approaches. Other large-scale research in areas such as home-based business and business incubators also reflect a growing interest in funding large-scale entrepreneurship research. To date, however, this research has been done with at most marginal reference to or involvement of mainstream entrepreneurship researchers.

These research initiatives, coupled with the advent of Kauffman Foundation programmatic funding in the near future, suggest that entrepreneurship in the future will continue to have access to the funds and visionary energies necessary to keep the field vibrant. Additionally, the continued growth of endowed positions, mid-level career positions, and research publications suggest that the growth of the field in professional terms will be able to continue at its fast pace.

The continuing challenge to the field is its need to go and grow beyond itself. An increasing amount of doctoral and professional research is being done by people with no tie, or even knowledge of, mainstream entrepreneurship research. As a cross-disciplinary organization, USASBE is perfectly placed to become the common ground for these various disciplines to come together to share ideas and opportunities. However, for this to be effective, USASBE, like the top entrepreneurship journals, must actively

seek to "pull itself up by its bootstraps" to make the organization attractive as a venue for researchers in other fields who are skeptical of the potential contributions to be made to their work and field by USASBE members, as well as being skeptical of the quality of the organization in the academic pecking order. Academics who only count publications and presentations in "Class A" venues are the audience we must seek to entice.

One other infrastructure impact in the next one to two years will be the operationalization of the new AACSB accreditation rules, which permit a more mission based process for accrediting business school programs. Based in part on the Porter and McKibbin (1988) report, which embraced "entrepreneurialism" as one of the defining characteristics of 21st century business, the role of entrepreneurship programs in larger academic programs remains in doubt. At this time, no professional organization of entrepreneurship academics has sought to work in a systematic manner with business schools, their deans, or the AACSB to assist in the mainstreaming of entrepreneurship into the revised business curriculum. This remains an opportunity only as long as the operationalization of the new accreditation rules are in their formative stage. Once it is clear that developing entrepreneurialism doesn't specifically require entrepreneurship education for accreditation, the field of entrepreneurship will lose one of its greatest opportunities of the decade of the 90's. Fast action is needed if we are to make real a goal to which we can all aspire - the teaching of entrepreneurship fundamentals to every business student in America. We have the infrastructure - personnel, research,

pedagogical foundation, and resources to make this work. We need the will and focus.

TABLE 1

1992 LISTING OF ENDOWED POSITIONS IN
ENTREPRENEURSHIP AND RELATED FIELDS

STATE	UNIVERSITY	CHAIR NAME (*=Open Positions)
AL	Troy State University	Bibby Chair
AL	Troy State University	Eminent Scholar Chair
AR	University of the Ozarks	Walton Scholars Chair
CA	California State University Fresno	Reighard Chair (*)
CA	University of Santa Clara	Klimek Professorship
CA	University of California - Berkeley	Cortese Chair
CA	University of California, Irvine	Gerken Chair
CA	University of Southern California	de Bell Professorship (*)
CA	University of Southern California	Simonson Chair (*)
CO	University of Colorado-Boulder	Anderson Professorship
CT	Trinity College	Cullom Davis Professor
CT	Yale University	Wolfe Professor
FL	Florida International University	Knight Ridder Decision Science Chair
FL	University of Central Florida	Phillips-Schenck Chair
FL	University of Miami	McLamore Chair (*)
FL	University of Tampa	Hollingsworth Chair
GA	Georgia State University	Ramsey Chair
GA	Kenessaw State College	Dinos Distinguished Chair
GA	University of Georgia	Regents Professor
IA	Iowa State University	Pioneer Hi-Bred Professor
IA	University of Northern Iowa	Chair for Entrepreneurial Studies
ID	University of Idaho	Chair in Business (*)
IL	DePaul University	Coleman/Fannie May Chair
IL	Loyola University of Chicago	Marotta Professor
IL	Northwestern University	Levy Professor
IL	Southern Illinois University	Rehn Professorship
IL	University of Illinois at Chicago	Thorne Chair
IN	Ball State University	Stoops Professorship
IN	Purdue University	Weil Professorship of Management
KS	Wichita State University	Chair in Entrepreneurship
KS	Wichita State University	Clinton Chair in Management
KY	University of Louisville	Brown-Forman Professor
KY	University of Louisville	Brown & Williamson Professorship
LA	Louisiana State University	Saurage Chair (*)
LA	Louisiana State University	Copeland Chair (*)
LA	Northeast Louisiana University	Distinguished Professor

STATE	UNIVERSITY	CHAIR NAME (*=Open Positions)
MA	Babson College	Babson Chair
MA	Babson College	Hamilton Chair
MA	Babson College	Wesissman Chair
MA	Harvard University	Sarofim Rock Chair
MA	Harvard University	Class of 1954 Professorship
MA	Harvard University	d'Arbeloff Professorship
MA	Harvard University	MBA Class of 1961 Visiting Prof (*)
MA	Harvard University	MBA Class of 1960
MA	Massachusetts Institute of Technology	Sarnoff Professor
MD	University of Maryland - College Park	Dingman Chair
MI	Hillsdale College	Von Mises Chair
MI	Hillsdale College	Geo C. Munson Chair
MI	Hillsdale College	Rosecranse Chair
MI	Hillsdale College	Brouwer McIntyre Chair
MN	University of Minnesota	Carlson Chair
MN	University of Minnesota - Twin Cities	3M Professorship
MN	University of Saint Thomas	Small Business Chair
MO	Saint Louis University	Coleman Chair
MO	University of Missouri/Kansas City	Marion Bloch Chair
NC	Campbell University	Lundy Chair
NC	University of North Carolina	Hettleman Professorship
NC	Wake Forest University	Broyhill Chair
NE	Doane College	Kinney Professorship
NH	Dartmouth College	Kimball Professorship
NJ	Fairleigh Dickinson University	Rothman Professorship
NJ	Rutgers University - Newark	Chair of Enterprise
NM	University of New Mexico	Black Professor
NV	Sierra Nevada College	Siebens Chair
NY	Columbia University	Bronfman Professor
NY	Cornell University	Berens Chair
NY	Cornell University	Failing Chair
NY	New York University	Price Professorship
NY	Rensselear Polytechnic Institute	Professorship
OH	Baldwin Wallace College	Herzog Chair
OH	Miami University	Moekel Professorship
OH	Ohio State University	Davis Chair
OH	Youngstown State University	Monus Chair
OK	Oral Roberts University	Chair of Free Enterprise
OK	University of Oklahoma	Boyd Professorship
OK	University of Oklahoma-Norman	Puterbaugh Chair (*)
OK	University of Tulsa	Bovaird Chair
PA	Carnegie Mellon University	Morgenthaler Professor

STATE	UNIVERSITY	CHAIR NAME (*=Open Positions)
PA	University of Pennsylvania	Dicker Term Professorship
PA	University of Pennsylvania	Chair in Real Estate
PA	University of Pennsylvania	Taylor Professorship
PA	University of Pennsylvania	Riklis Professorship
PA	University of Pennsylvania	Landau Professorship
PA	University of Pennsylvania	Hauck Term Professorship
PA	Washington and Jefferson College	Hurdy Professorship
SC	The Citadel	Chapman Chair
SC	University of South Carolina - Aiken	Olin Chair
SD	University of South Dakota	Freeman Chair
TN	Belmont College	Moensch Visiting Professorship
TN	Memphis State University	MSU Chair
TN	Middle Tennessee State University	Jones Chair
TN	Middle Tennessee State University	Martin Chair in Insurance
TN	Middle Tennessee State University	Weatherford Chair
TN	University of Tennessee-Martin	Hendrix Chair
TN	University of Tennessee - Chattanooga	Probasco Professorship
TX	Baylor University	Streich Professorship
TX	Baylor University	Stevens Chair
TX	Baylor University	Caruth Chair
TX	Baylor University	Mays Professorship
TX	Baylor University	Lay Chair
TX	Baylor University	Hankamer Chair
TX	Baylor University	Rogers Chair
TX	St. Mary's University	Stafford Pryor Chair
TX	St. Mary's University	Harkins-Richards Professorship
TX	University of Texas at Austin	West Chair
TX	University of Texas at Austin	Gale Chair
TX	University of Texas at Austin	Watson Professorship (*)
TX	University of Texas at Austin	Douglass Professorship (*)
TX	University of Texas at Austin	Bayless/Farish Chair (*)
VA	George Mason University	Eakin Chair in Strategic Management
VA	James Madison University	Moody Professorship
VA	James Madison University	Showker Professorship
VA	University of Virginia	Beeton Professorship
VA	University of Virginia	Farrish Professorship
VA	University of Virginia	Cornell Professorship
VA	Virginia Polytechnic University	Strickler Professorship
WA	Eastern Washington University	Sandifur Professorship (*)
WA	Seattle Pacific University	Snellman Chair
WI	Beloit College	Coleman/Fannie May Professorship
WI	Marquette University	Coleman/Fannie May Chair

STATE	UNIVERSITY	CHAIR NAME (*=Open Positions)
WI	University of Wisconsin	Maier Professorship
WI	University of Wisconsin - Madison	Graham Chair
WI	University of Wisconsin - Whitewater	Young Distinguished Professor

TABLE 2

LIST OF CENTERS IN
ENTREPRENEURSHIP AND RELATED FIELDS

Adapted From Sandberg and Gatewood (1991)

Caruth Institute of Owner-Managed Business
Southern Methodist University
Dallas TX 75275-0221

Center for the Study of Entrepreneurship
Marquette University
Milwaukee WI 53233

Center For Closely Held Firms
Loyola University
Baltimore MD 21210

Center for Economic Education
University of Tennessee at Chattanooga
Chattanooga TN 37403

Center for Entrepreneurial Studies
New York University
New York NY 10006

Center for Small Business
San Francisco State University
San Francisco CA 94132

Center For Family Business
Northeastern University
Dedham MA 02115

Center for Entrepreneurship of New Technical Ventures
Renssalaer Polytechnic Institute
Troy NY 12180-3590

Center for Entrepreneurship
Pittsburg State University
Pittsburg KS 66762

Center for Entrepreneurial Studies
University of Colorado
Boulder CO 80309

Center for New Venture Analysis
University of Tennessee at Knoxville
Knoxville TN 37403

Center for Entrepreneurship
James Madison University
Harrisonberg, VA 22807

Center for Private Enterprise
Baylor University
Waco TX

Center For Entrepreneurship
Canasius College
Buffalo NY 14208

Center for Entrepreneurial Studies
Babson College
Wellesley MA 2157

Center For Entrepreneurship and Small Business Management
Wichita State University
Wichita KS 67208

Center for the Development of Entrepreneurs
Chisolm Institute of Technology
Australia

Center for Entrepreneurial Studies
Washington and Jefferson College
Washington PA 15301

Chicago Family Business Center
Loyola University
Chicago IL 60625

Cleveland Center For Economic Education
John Carroll University
Cleveland OH 44118

Cranfield Entrepreneurship Center
Cranfield School of Management
United Kingdom

Dingman Center for Entrepreneurship
University of Maryland at College Park
College Park MD 20742

Dobson Centre For Entrepreneurial Studies
McGill University
CANADA H3A 1G5

Donald Jones Center For Entrepreneurship
Carnegie-Mellon University 15213
Pittsburgh PA

Enterprise Development Center
University of Tulsa
Tulsa OK 74104 ~~74104~~ 74104

Entrepreneur Program
University of Southern California
Los Angeles CA 90089

Entrepreneur Institute
California State University - Fresno
Fresno CA 93740

Entrepreneurial Studies Center
York University
Toronto, Canada

Entrepreneurial Studies Program
Brigham Young University
Provo UT 84602

Entrepreneurial Management Center
San Diego State University
San Diego, CA 92182

Entrepreneurship Interest Group
Harvard University
Boston MA 02138

Family Business Program
Goshen College
Goshen IN 46526

Family Business Program
Oregon State University
Corvallis OR 97331

George Rothman Institute of Entrepreneurial Studies
Fairleigh Dickinson University
Madison NJ 7940

Goering Center for Family/Private Business
University of Cinncinati
Cincinnati OH 45221

Heart of Quebec Entrepreneurship Center
Universite du Quebec a Trois-Rivieres
Trois Rivieres Quebec, Canada G9A 5H7

IC² Institute
University of Texas at Austin
Austin TX 78705

Innovation and Entrepreneurship Institute
University of Miami
Miami FL 33124

Institute For Entrepreneurship and Creativity
Metropolitan State College
Denver CO 80217

International Center for Franchise Education
University of Nebraska
Lincoln NE 68588

Jefferson Smurfit Center for Entrepreneurial Studies
Saint Louis University
St. Louis MO 63108

John F. Baugh Center for Entrepreneurship
Baylor University
Waco TX 76798

Karl Eller Center for Entrepreneurship
University of Arizona
Tucson, AZ 85721

Kenan Institute of Private Enterprise
University of North Carolina
Chapel Hill NC 27599

L'institut de researches politiques
Universite Laval
Quebec, Quebec, CANADA

Levy Rosenblum Inst. of Private Enterprise & Entrepreneurship
Tulane University
New Orleans LA 70118

National Center For Research in Vocational Education
The Ohio State University
Columbus OH 43210

New Venture Development Group
University of Calgary
Calgary, Alberta, Canada

NFIB Research Foundation
National Federation of Independent Business
Washington DC

Office For Entrepreneurial Studies
University of Illinois at Chicago
Chicago IL 60010

Small Business Center
Durham University
UNITED KINGDOM

Sol C. Snider Entrepreneurial Center
University of Pennsylvania
Philadelphia PA 19104

Texas Tech Enterprise Network
Texas Tech University
Abilene, TX

Xavier Entrepreneurial Center
Xavier University
Cincinnati OH 45207

TABLE 3

LIST OF PUBLICATIONS IN
ENTREPRENEURSHIP AND RELATED FIELDS

LISTED IN KATZ (1991b)

Entrepreneurship Development Review (Canada)
Entrepreneurship: Theory and Practice
Entrepreneurship and Regional Development
Family Business Review
International Small Business Journal
Journal of Organizational Change Management
Journal of Business and Entrepreneurship
Journal of Business Venturing
Journal of Small Business management
Journal of Small Business - Canada
Minority Business Today
Small Business Economics
Small Enterprise Development: An International Journal
Southern Africa Journal for Entrepreneurship and Small Business

NEW ENTRIES (Date Started)

American Inventor (1989)
Entrepreneurship, Innovation and Change (1991)
International Journal for the Advancement of Entrepreneurship Education, Training and Research: Theory and Practice (1993)
International Journal of Entrepreneurship (Nanyang Technological University (Singapore)
Journal of Entrepreneurship (Sage Publications, India)
Journal of Private Enterprise (1985)
Review of Small Business Finance (1992)
Small Enterprise Research: The Journal of SEAANZ (Queensland University, Australia)
The Entrepreneur Review (1993)
Wisconsin Small Business Forum (1982), now *Small Business Forum*

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Porter, L.W. and McKibbin, L.E. (1988) *Management education and development: drift or thrust into the 21st century?*. New York: McGraw-Hill.

Sandberg, W.R. and Gatewood, E.J. (1990). A profile of entrepreneurship research centers: orientations, interests, activities, and resources. *Entrepreneurship: Theory and Practice*, forthcoming.

Solomon, George (1992). National survey of entrepreneurship education in the U.S.: Trend and observations. Paper presented at Entrepreneurship Education Pre-Conference, USASBE Annual Meeting, Chicago, October 7.

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ENDNOTES

1. METHODOLOGICAL NOTE: In addition to newsletters from organizations and search announcements, the *McGraw-Hill Directory of management Faculty 1992-1993* (Hasselback, 1992) was checked for endowed position listings. Only 13 of the 123 positions listed in Table 1 were found in the volume.

2. The following changes occurred since 1991. Illinois State University's Small Business Chair ended when V.K. Unni went to Indiana University of Pennsylvania. Kansas State University's McAinich Chair is held by the School's dean. The University of Mississippi's Starnes Lectureship was changed to another field. The University of Cincinnati's Goering Chair has been reclassified as a center directorship. The University of Wisconsin - Madison's Wisconsin Distinguished Professorship term ended, but the position holder, Allan Filley, received the Graham Chair at Madison.